

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-17. (cancelled)

18. (currently amended) ~~The greenhouse construction of claim 13~~

A greenhouse construction with rail system for moving a carriage thereover for moving plants or carrying out further treatments thereon, said greenhouse construction comprising:

a movable carriage (15) comprising wheels (14);

a roof construction (2) comprised of plural connected individual roofs (4);

plural vertical columns (3);

first and second longitudinal beams (9, 10) extending, in a first direction, between and connected to said columns (3), the first and second longitudinal beams (9, 10) maintaining cohesion between said vertical columns (3),

said first and second longitudinal beams comprising an integrated rail system for supporting the movable carriage,

the integrated rail system contributing structural strength, as part of the first and second longitudinal beams, supporting the roof construction,

the first and second longitudinal beams, including the integrated rail system, extending continuously over a distance of at least three successive columns;

plural gutters (19) running in a second direction, between and over the first longitudinal beam (9) and the second longitudinal beam (10);

each individual roof (4) comprising one of the gutters (19) and extending, in the second direction, between and over the first longitudinal beam (9) and the second longitudinal beam (10);

plural ridge sections (21), each ridge section (21) connecting two of said individual roofs (4) along edges of the individual roofs, the ridge sections (21) extending in the second direction,

each individual roof (4) comprised of plural panels (5), each panel extending from a corresponding one of the gutters (19) to a corresponding one of the ridge sections (21), the panels (5) connected to each other from the first longitudinal beam (9) to the second longitudinal beam (10); and

the movable carriage (15) supported by each of the first and second longitudinal beams (9, 10) and fully extending between the first and second longitudinal beams (9, 10), the carriage movable in the first direction, wherein,

each of the first and second longitudinal beams (9, 10) comprises two longitudinal sections (32, 33) extending in the

first direction with ~~[[a]]~~ an upper, first of the longitudinal sections (32) located above a lower, second of the longitudinal sections (33),

~~the two longitudinal sections each have a U cross-section,~~

the two longitudinal sections are joined, along a centerline of each longitudinal section, by link sections (17), and

the lower, second of the longitudinal sections (32) comprises a support part (35) extending in the first direction, the support part (35) taking the wheels (14) of the carriage (15), the integrated rail system comprising the support part (35) taking the wheels (14) of the carriage (15)

~~the carriage (15) comprises wheels (14), and~~

~~the second of the longitudinal section sections (32) has an area extending in the first direction and defining a tray (35), the tray (35) taking the wheels (14) of the carriage (15).~~

19-30. (cancelled).

31. (new) The greenhouse construction of claim 18, further comprising:

plural auxiliary columns (20) respectively supported by said vertical columns (3); and

further auxiliary columns (20) supported by said longitudinal beams (9, 10), each of the further auxiliary columns (20) being located intermediate two adjacent vertical columns (3) of a corresponding one of the first and second longitudinal beams (9, 10), said further auxiliary columns (20) not being directly above any of said vertical columns (3), at least some of the gutters (19) supported by the further auxiliary columns (20).

32. (new) The greenhouse construction of claim 18, wherein,

the two longitudinal sections each have a U cross-section with open parts of each U cross-section facing each other, and

the support part (35) comprises by an area extending in the first direction and defining a tray (35), the tray (35) taking the wheels (14) of the carriage (15), the integrated rail system comprising the tray (35) taking the wheels (14) of the carriage (15).

33. (new) The greenhouse construction of claim 18, wherein,

the support part (35) comprises by an area extending in the first direction and defining a tray (35), the tray (35) taking the wheels (14) of the carriage (15), the integrated rail system comprising the tray (35) taking the wheels (14) of the carriage (15).

34. (new) The greenhouse construction of claim 18, wherein, the panels (5) are made of a film material.

35. (new) A greenhouse construction with rail system for moving a carriage thereover for moving plants or carrying out further treatments thereon, said greenhouse construction comprising:

a movable carriage (15) comprising wheels (14);

a roof construction (2) comprised of plural connected individual roofs (4);

plural vertical columns (3);

first and second longitudinal beams (9, 10) extending, in a first direction, between and connected to said columns (3), the first and second longitudinal beams (9, 10) maintaining cohesion between said vertical columns (3),

said first and second longitudinal beams comprising an integrated rail system for supporting the movable carriage,

the integrated rail system contributing structural strength, as part of the first and second longitudinal beams, supporting the roof construction,

the first and second longitudinal beams, including the integrated rail system, extending continuously over a distance of at least three successive columns;

plural gutters (19) running in a second direction, between and over the first longitudinal beam (9) and the second longitudinal beam (10);

each individual roof (4) comprising one of the gutters (19) and extending, in the second direction, between and over the first longitudinal beam (9) and the second longitudinal beam (10), adjacent ones of said individual roofs (4) being connected along edges of the individual roofs; and

the movable carriage (15) supported by each of the first and second longitudinal beams (9, 10) and fully extending between the first and second longitudinal beams (9, 10), the carriage movable in the first direction, wherein,

each of the first and second longitudinal beams (9, 10) comprises two longitudinal sections (32, 33) extending in the first direction with an upper, first of the longitudinal sections (32) located above a lower, second of the longitudinal sections (33),

the two longitudinal sections are joined, along a centerline of each longitudinal section, by link sections (17), and

the lower, second of the longitudinal sections (32) comprises a support part (35) extending in the first direction, the support part (35) taking the wheels (14) of the carriage (15), the integrated rail system comprising the support part (35) taking the wheels (14) of the carriage (15).

36. (new) The greenhouse construction of claim 35, further comprising:

plural auxiliary columns (20) respectively supported by said vertical columns (3); and

further auxiliary columns (20) supported by said longitudinal beams (9, 10), each of the further auxiliary columns (20) being located intermediate two adjacent vertical columns (3) of a corresponding one of the first and second longitudinal beams (9, 10), said further auxiliary columns (20) not being directly above any of said vertical columns (3), at least some of the gutters (19) supported by the further auxiliary columns (20).

37. (new) The greenhouse construction of claim 35, wherein,

the two longitudinal sections each have a U cross-section with open parts of each U cross-section facing each other, and

the support part (35) comprises by an area defining a tray (35) extending in the first direction, the tray (35) taking the wheels (14) of the carriage (15), the integrated rail system comprising the tray (35) taking the wheels (14) of the carriage (15).

38. (new) The greenhouse construction of claim 35, wherein,

the support part (35) comprises by an area defining a tray (35) extending in the first direction, the tray (35) taking the wheels (14) of the carriage (15), the integrated rail system comprising the tray (35) taking the wheels (14) of the carriage (15).

39. (new) The greenhouse construction of claim 35, wherein, the panels (5) are made of a film material.